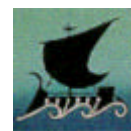# MEDAR/MEDATLAS II

MEDiterranean Data Archaeology and Rescue

MEDAR is a MAST Concerted Action MAS3-CT98-0174/IC20-CT98-0103

Objectives

◆ *To compile and safeguard historical data sets*
◆ *To make available comparable data sets*
  • *Common format*
  • *Common protocol for quality checks*

◆ *To compute climatological fields*
◆ *To publish and disseminate observed data and climatology*
◆ *To enhance communication between scientists and data managers*

MEDAR Network : 23 participants

Regional archiving – Western Basins
Regional archiving – Central Basins
Regional archiving – Eastern Basins
Regional archiving – Black Sea
Thematic centers – Objective analysis
Thematic centers – Quality assurance
International organisation

Dark = Coordinating centers
Light = National coordinators
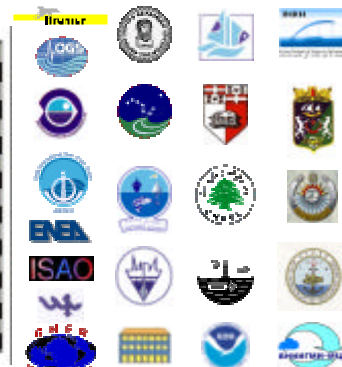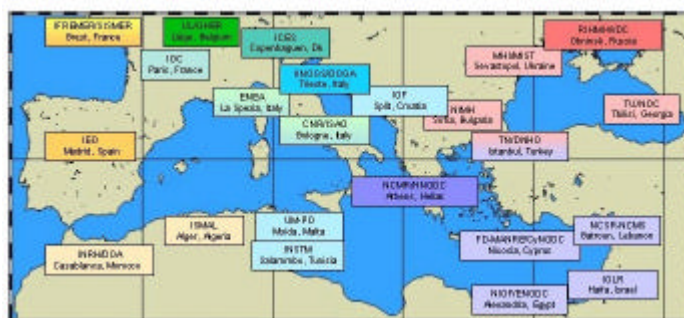
## Database content

Volume *of the database : doubled since 1997*

Data type	Nb of Profiles in MEDATLAS2002 *(MEDATLAS 1997)*
CTD	35 679 *(15 778)*
Bottle	88 323 *(33 977)*
MBT and XBT	161 848 *(156 474)*
Thermistors	29 *(29)*

| Parameter	Nb of Profiles	Parameter	Nb of Profiles
Temperature	284 371	Nitrite	10 508
Salinity	118 009	Ammonium	5 239
Oxygen	44 928	Chlorophyll	4 672
Phosphate	20 761	Alkalinity	2 548
Silicate	15 920	Total Phosphorus	2381
PH	14 512	H2S	1 843
Nitrate	10 572	Total Nitrogen	153
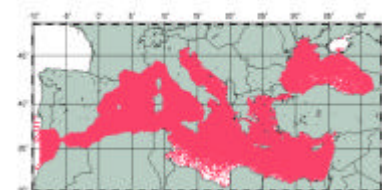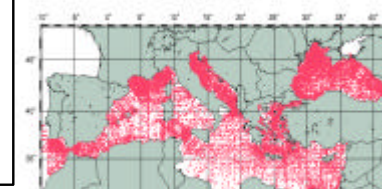
Overall quality *of the data set : A quality flag is assigned to each numerical value by automatic and visual checks*

Good   Out of statistics   Doubtful   False   No QC
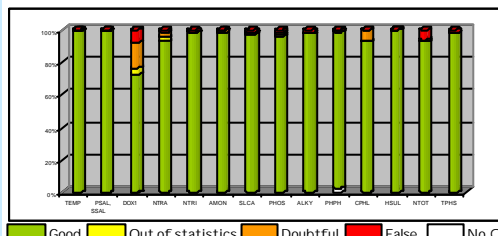
Climatology – Objective Analysis :

◆ *Computation of Climatological Analysis by Variational Inverse Model (VIM) algorithms*
◆ *Computation made on finite elements and then re-interpolated on a regular grid (0.2 degrees in Latitude and Longitude)*
◆ *T, S and bio-chemical climatology reviewed by regional experts and modellers*
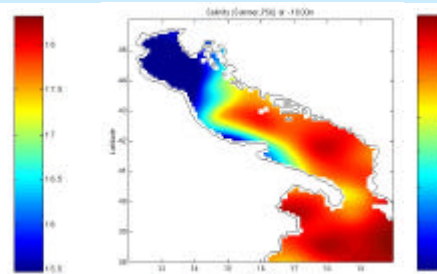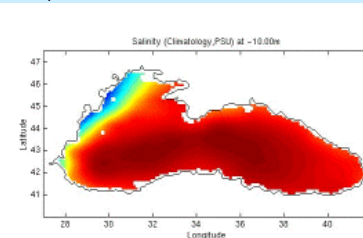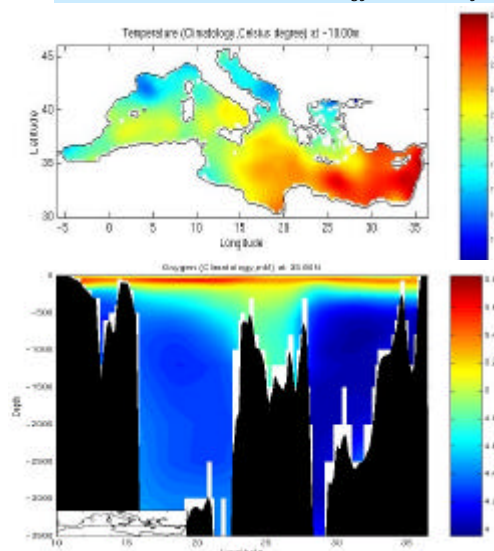
◆ *Annual , seasonal and monthly climatology for Temperature, Salinity*
◆ *Annual and seasonal climatology for Oxygen, Silicate, Phosphate and Hydrogen sulphide (H_2S) in the Black Sea*
◆ *Annual climatology only for Nitrate, Nitrite, PH, Ammonium, Alkalinity, Chlorophyll*
◆ *No climatology for Total Phosphorus and Total Nitrogen*

Final product : 4 CDRoms